

AMENDMENT AFTER FINAL

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

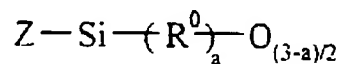
Listing of Claims:

1-11. (Canceled)

12. (Currently Amended) A dental composition comprising:

(1) at least one crosslinkable or polymerizable silicone oligomer or polymer which is liquid at room temperature or which is heat-meltable at a temperature of less than 100°C, and which comprises:

at least one unit of formula (I):



wherein:

- a = 0, 1 or 2,

- R⁰, identical or different, represents an alkyl, cycloalkyl, aryl, vinyl, hydrogen or alkoxy radical,

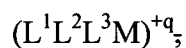
- Z, identical or different, is an organic substituent comprising at least one reactive epoxy, alkenyl ether, ~~oxetane~~, dioxolane or carbonate functional group, and

at least two silicon atoms,

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(2) at least one dental filler present in a proportion of at least 10% by weight relative to the total weight of the composition, and

(3) an effective quantity of at least one organometallic complex borate photoinitiator having a residual light absorption of between 200 and 500 nm, the photoinitiator having a cationic and a borate anionic entity, said cationic entity being of formula (II):



wherein:

M represents a group 4 to 10 metal,

L^1 represents 1 ligand bound to the metal M by π by electrons, said ligand being η^3 -alkyl, η^5 -cyclopentadienyl, η^7 -cycloheptatrienyl and optionally substituted η^6 -benzene having from 2 to 4 condensed rings, each ring being capable of contributing to the valency layer of the metal M by 3 to 8 π electrons;

L^2 represents a ligand bound to the metal M by π electrons, said ligand being η^7 -cycloheptatrienyl or η^6 -benzene and the compounds having from 2 to 4 condensed rings, each ring being capable of contributing to the valency layer of the metal M by 6 or 7 π electrons;

L^3 represents from 0 to 3 ligands, which are identical or different, linked to the metal M by σ electrons, said ligand(s) being CO or NO_2^+ ; the total electron charge q of the complex to which L^1 , L^2 and L^3 contribute and the ionic charge of the metal M being positive and equal to 1 or 2; and

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said anionic borate being of formula (III):



wherein:

- a and b are integers ranging, for a, from 0 to 3 and, for b, from 1 to 4 with $a + b = 4$,

- the symbols X represent:

a halogen atom with $a = 0$ to 3, or

an OH functional group with $a = 0$ to 2,

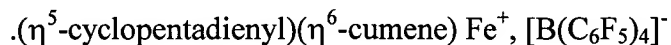
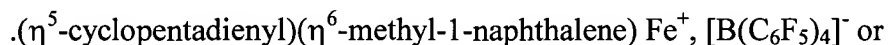
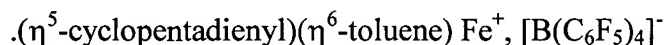
- the symbols R are identical or different and represent:

a phenyl radical substituted with at least one electron-attracting group or with at least 2 halogen atoms, this being when the cationic entity is an onium of an element of groups 15 to 17,

a phenyl radical substituted with at least one element or one electron-attracting group, this being when the cationic entity is an organometallic complex of an element of groups 4 to 10, or

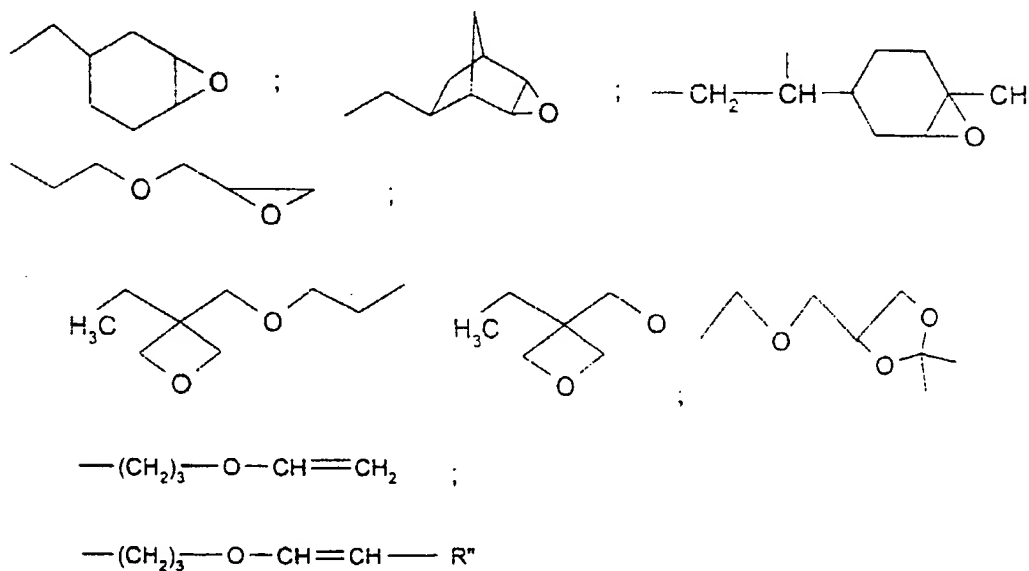
an aryl radical containing at least two aromatic nuclei, optionally substituted with at least one electron-attracting group or element, regardless of the cationic entity.

13. (Previously presented) A composition as claimed in claim 12, wherein the photoinitiator is:



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14. (Previously presented) A composition as claimed in claim 12, wherein Z is an organic substituent Z1 comprising at least one reactive epoxy, or a dioxolane functional group.
15. (Previously presented) A composition as claimed in claim 14, wherein the oligomer or polymer (1) further comprises other reactive functional groups Z which are alkenyl ether, oxetane or carbonate functional groups Z2.
16. (Currently Amended) A composition as claimed in claim 14 12, wherein the reactive functional group(s) of Z ~~Z1~~ is one of the following radicals:

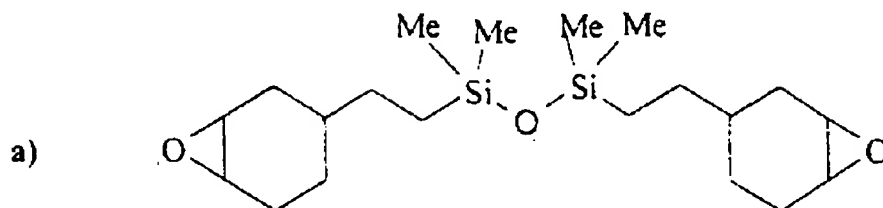


- with R'' representing a linear or branched C₁-C₆ alkyl radical.

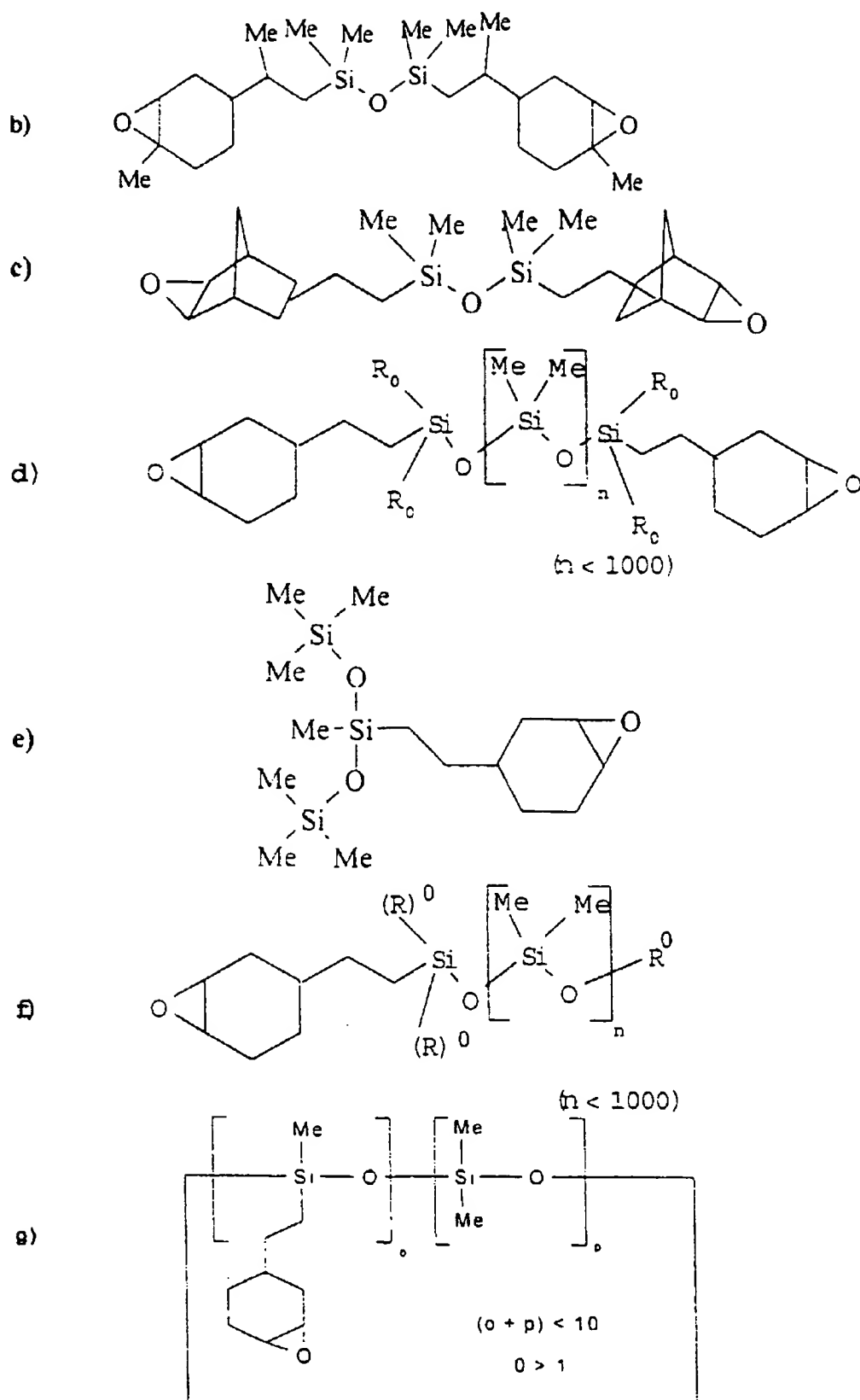
17. (Previously presented) A composition as claimed in claim 12, wherein the dental composition comprises at least one aromatic hydrocarbon photosensitizer with one or more optionally substituted aromatic nuclei, having a residual light absorption of between 200 and 500 nm.

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18. (Currently amended) A dental composition as claimed in claim 12, wherein the silicone oligomer or polymer is at least one polysiloxane having the following average formula:



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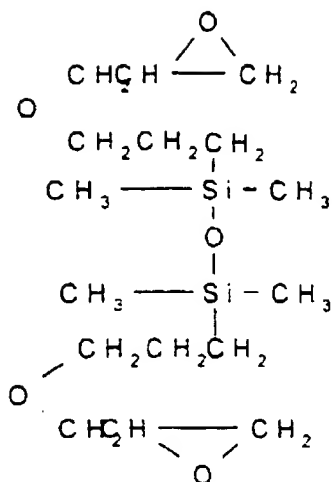
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or

h)



19. (Canceled)

20. (Previously presented) A dental composition as claimed in claim 12, provided in the form of a monocomponent composition.